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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,628	03/01/2004	Benjamin G. Davis	GC571-2-C1	3111

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Genencor International, Inc.  
925 Page Mill Road  
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EXAMINER
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PATTERSON, CHARLES L JR

ART UNIT	PAPER NUMBER
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1652

DATE MAILED: 12/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/791,628

Applicant(s)

DAVIS ET AL.

Examiner

Charles L. Patterson, Jr.

Art Unit

1652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-145 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-145 are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, 19-47 and 56-73, drawn to a catalytic antagonist attached to a subtilisin protease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- II. Claims 1-7, 11, 19-28, 37-42, 44, 48, 56-65, drawn to a catalytic antagonist attached to a chymotrypsin-type protease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- III. Claims 1-7, 12, 19-28, 37-42, 44, 49, 56-65, drawn to a catalytic antagonist attached to an alpha/beta type serine hydrolase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- IV. Claims 1-6, 13, 19-28, 37-41, 50, 56-65, drawn to a catalytic antagonist attached to an aspartyl protease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- V. Claims 1-6, 14, 19-28, 37-41, 51, 56-65, drawn to a catalytic antagonist attached to a pepsin-type protease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- VI. Claims 1-6, 15, 19-28, 37-41, 52, 56-65, drawn to a catalytic antagonist attached to a cysteine protease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

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- VII. Claims 1-6, 16, 19-28, 37-41, 53, 56-65, drawn to a catalytic antagonist attached to a papain and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- VIII. Claims 1-6, 17-28, 37-41, 54-65, drawn to a catalytic antagonist attached to a metalloprotease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- IX. Claims 1-6, 19-26, 37-41, and 56-63, drawn to a catalytic antagonist attached to an esterase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- X. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an amidase a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an amidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a peptidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a lactamase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XIV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a cellulase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

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- XV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an oxidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XVI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an oxidoreductase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XVII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a reductase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XVIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a transferase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XIX. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a hydrolase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XX. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an isomerase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a ligase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a lipase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

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- XXIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a phospholipase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXIV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a phosphatase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a kinase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXVI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a sulfatase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXVII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a lysozyme and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXVIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a glycosidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXIX. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a nuclease and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

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XXX. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an aldolase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a ketolase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a lyase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a cyclase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXIV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a reverse transcriptase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXV. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a hyaluronidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

XXXVI. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to an amylase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.

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- XXXVII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a cerebrosidase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXXVIII. Claims 1-6, 19-26, 37-41, 56-63, drawn to a catalytic antagonist attached to a chitinase and a method of degrading a target molecule using the catalytic antagonist, classified in class 260+.
- XXXIX. Claims 74-83, 92-106, drawn to a subtilisin protease having an altered substrate specificity, classified in class 435, subclass 221.
- XL. Claims 74-77, 80, 84, 92-98, drawn to a chymotrypsin-type serine protease having an altered substrate specificity, classified in class 435, subclass 213.
- XLI. Claims 74-77, 85, 92-96, drawn to an alpha/beta type serine hydrolase having an altered substrate specificity, classified in class 435, subclass 219.
- XLII. Claims 74-77, 86, 92-98, drawn to an aspartyl protease having an altered substrate specificity, classified in class 435, subclass 219.
- XLIII. Claims 74-77, 80, 87, 92-98, drawn to a pepsin-type protease having an altered substrate specificity, classified in class 435, subclass 219.
- XLIV. Claims 74-77, 80, 88, 92-98, drawn to a cysteine protease having an altered substrate specificity, classified in class 435, subclass 219.



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- XLV. Claims 74-77, 80, 89, 92-98, drawn to a papain having an altered substrate specificity, classified in class 435, subclass 219.
- XLVI. Claims 74-77, 90-98, drawn to a metalloprotease having an altered substrate specificity, classified in class 435, subclass 219.
- XLVII. Claims 74-77, 92-96, drawn to an esterase having an altered substrate specificity, classified in class 435, subclass 196.
- XLVIII. Claims 74-77, 92-96, drawn to a amidase having an altered substrate specificity, classified in class 435, subclass 231.
- XLIX. Claims 74-77, 92-98, drawn to a peptidase having an altered substrate specificity, classified in class 435, subclass 212.
- L. Claims 74-77, 92-96, drawn to a lactamase having an altered substrate specificity, classified in class 435, subclass 231.
- LI. Claims 74-77, 92-96, drawn to a cellulase having an altered substrate specificity, classified in class 435, subclass 209.
- LII. Claims 74-77, 92-96, drawn to a oxidase having an altered substrate specificity, classified in class 435, subclass 189.
- LIII. Claims 74-77, 92-96, drawn to a oxidoreductase having an altered substrate specificity, classified in class 435, subclass 189.
- LIV. Claims 74-77, 92-96, drawn to a reductase having an altered substrate specificity, classified in class 435, subclass 189.
- LV. Claims 74-77, 92-96, drawn to a transferase having an altered substrate specificity, classified in class 435, subclass 193.
- LVI. Claims 74-77, 92-96, drawn to a hydrolase having an altered substrate specificity, classified in class 435, subclass 195.
- LVII. Claims 74-77, 92-96, drawn to an isomerase having an altered substrate specificity, classified in class 435, subclass 233.

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- LVIII. Claims 74-77, 92-96, drawn to a ligase having an altered substrate specificity, classified in class 435, subclass 183.
- LIX. Claims 74-77, 92-96, drawn to a phospholipase having an altered substrate specificity, classified in class 435, subclass 198.
- LX. Claims 74-77, 92-96, drawn to a phosphatase having an altered substrate specificity, classified in class 435, subclass 196.
- LXI. Claims 74-77, 92-96, drawn to a kinase having an altered substrate specificity, classified in class 435, subclass 194.
- LXII. Claims 74-77, 92-96, drawn to a sulfatase having an altered substrate specificity, classified in class 435, subclass 196.
- LXIII. Claims 74-77, 92-96, drawn to a lysozyme having an altered substrate specificity, classified in class 435, subclass 206.
- LXIV. Claims 74-77, 92-96, drawn to a glycosidase having an altered substrate specificity, classified in class 435, subclass 200.
- LXV. Claims 74-77, 92-96, drawn to a glycosyltransferase having an altered substrate specificity, classified in class 435, subclass 193.
- LXVI. Claims 74-77, 92-96, drawn to a nuclease having an altered substrate specificity, classified in class 435, subclass 199.
- LXVII. Claims 74-77, 92-96, drawn to an aldolase having an altered substrate specificity, classified in class 435, subclass 232.
- LXVIII. Claims 74-77, 92-96, drawn to a ketolase having an altered substrate specificity, classified in class 435, subclass 232.
- LXIX. Claims 74-77, 92-96, drawn to a lysase having an altered substrate specificity, classified in class 435, subclass 232.
- LXX. Claims 74-77, 92-96, drawn to a cyclase having an altered substrate specificity, classified in class 435, subclass 196.

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LXXI. Claims 74-77, 92-96, drawn to a reverse transcriptase having an altered substrate specificity, classified in class 435, subclass 193.

LXXII. Claims 74-77, 92-96, drawn to a hyaluronidase having an altered substrate specificity, classified in class 435, subclass 201.

LXXIII. Claims 74-77, 92-96, drawn to an amylase having an altered substrate specificity, classified in class 435, subclass 201.

LXXIV. Claims 74-77, 92-96, drawn to a cerebrosidase having an altered substrate specificity, classified in class 435, subclass 196.

LXXV. Claims 74-77, 92-96, drawn to a chitinase having an altered substrate specificity, classified in class 435, subclass 201.

LXXVI. Claims 107-177, 126-139, drawn to a method of directing the activity of a subtilisin protease to a specific target, classified in class 435, subclass 41.

LXXVII. Claims 107-112, 118, 126-131, drawn to a method of directing the activity of a chymotrypsin-type protease to a specific target, classified in class 435, subclass 41.

LXXVIII. Claims 107-111, 114, 119, 126-131, drawn to a method of directing the activity of an alpha/beta type protease to a specific target, classified in class 435, subclass 41.

LXXIX. Claims 107-111, 120, 126-131, drawn to a method of directing the activity of an aspartyl protease to a specific target, classified in class 435, subclass 41.

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- LXXX. Claims 107-111, 121, 126-131, drawn to a method of directing the activity of a pepsin-type protease to a specific target, classified in class 435, subclass 41.
- LXXXI. Claims 107-111, 122, 126-131, drawn to a method of directing the activity of a cysteine protease to a specific target, classified in class 435, subclass 41.
- LXXXII. Claims 107-111, 123, 126-131, drawn to a method of directing the activity of a papain protease to a specific target, classified in class 435, subclass 41.
- LXXXIII. Claims 107-111, 124-131, drawn to a method of directing the activity of a metalloprotease protease to a specific target, classified in class 435, subclass 41.
- LXXXIV. Claims 107-111, 126-129, drawn to a method of directing the activity of an esterase to a specific target, classified in class 435, subclass 41.
- LXXXV. Claims 107-111, 126-129, drawn to a method of directing the activity of an amidase to a specific target, classified in class 435, subclass 41.
- LXXXVI. Claims 107-111, 126-129, drawn to a method of directing the activity of a peptidase to a specific target, classified in class 435, subclass 41.
- LXXXVII. Claims 107-111, 126-129, drawn to a method of directing the activity of a lactamase to a specific target, classified in class 435, subclass 41.
- LXXXVIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a cellulase to a specific target, classified in class 435, subclass 41.

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- LXXXIX. Claims 107-111, 126-129, drawn to a method of directing the activity of an oxidase to a specific target, classified in class 435, subclass 41.
- XC. Claims 107-111, 126-129, drawn to a method of directing the activity of an oxidoreductase to a specific target, classified in class 435, subclass 41.
- XCI. Claims 107-111, 126-129, drawn to a method of directing the activity of a reductase to a specific target, classified in class 435, subclass 41.
- XCII. Claims 107-111, 126-129, drawn to a method of directing the activity of a transferase to a specific target, classified in class 435, subclass 41.
- XCIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a hydrolase to a specific target, classified in class 435, subclass 41.
- XCIV. Claims 107-111, 126-129, drawn to a method of directing the activity of an isomerase to a specific target, classified in class 435, subclass 41.
- XCV. Claims 107-111, 126-129, drawn to a method of directing the activity of a ligase to a specific target, classified in class 435, subclass 41.
- XCVI. Claims 107-111, 126-129, drawn to a method of directing the activity of a lipase to a specific target, classified in class 435, subclass 41.
- XCVII. Claims 107-111, 126-129, drawn to a method of directing the activity of a phospholipase to a specific target, classified in class 435, subclass 41.

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- XCVIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a phosphatase to a specific target, classified in class 435, subclass 41.
- XCIX. Claims 107-111, 126-129, drawn to a method of directing the activity of a kinase to a specific target, classified in class 435, subclass 41.
- C. Claims 107-111, 126-129, drawn to a method of directing the activity of a sulfatase to a specific target, classified in class 435, subclass 41.
- CI. Claims 107-111, 126-129, drawn to a method of directing the activity of a lysozyme to a specific target, classified in class 435, subclass 41.
- CII. Claims 107-111, 126-129, drawn to a method of directing the activity of a glycosidase to a specific target, classified in class 435, subclass 41.
- CIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a glycosyltransferase to a specific target, classified in class 435, subclass 41.
- CIV. Claims 107-111, 126-129, drawn to a method of directing the activity of a nuclease to a specific target, classified in class 435, subclass 41.
- CV. Claims 107-111, 126-129, drawn to a method of directing the activity of a aldolase to a specific target, classified in class 435, subclass 41.
- CVI. Claims 107-111, 126-129, drawn to a method of directing the activity of a ketolase to a specific target, classified in class 435, subclass 41.

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- CVII. Claims 107-111, 126-129, drawn to a method of directing the activity of a lyase to a specific target, classified in class 435, subclass 41.
- CVIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a cyclase to a specific target, classified in class 435, subclass 41.
- CIX. Claims 107-111, 126-129, drawn to a method of directing the activity of a reverse transcriptase to a specific target, classified in class 435, subclass 41.
- CX. Claims 107-111, 126-129, drawn to a method of directing the activity of a hyaluronidase to a specific target, classified in class 435, subclass 41.
- CXI. Claims 107-111, 126-129, drawn to a method of directing the activity of an amylase to a specific target, classified in class 435, subclass 41.
- CXII. Claims 107-111, 126-129, drawn to a method of directing the activity of a cerebrosidase to a specific target, classified in class 435, subclass 41.
- CXIII. Claims 107-111, 126-129, drawn to a method of directing the activity of a chitinase to a specific target, classified in class 435, subclass 41.
- CXIV. Claims 140-142, drawn to a method of enhancing the activity of a drug, classified in class 424, subclass 94.64.
- CXV. Claims 143-145, drawn to a method of inhibiting an enzyme or receptor, classified in class 435, subclass 183+ and numerous other classes and subclasses.

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Groups I-XXXVIII are classified in class 260+. These claims are directed to catalytic antagonists that can be an almost endless list of chemical compounds. Claim 126 depends from claim 75 and is identical with claim 93. For the purpose of the restriction it is presumed that it should depend from claim 107. Claim 131 is drawn to the "antagonist of claim 107". Claim 107 is drawn to a method and for the purposes of this restriction it is presumed that claim 131 should be drawn to the "method of claim 107".

The inventions are distinct, each from the other because:

The products of Groups (I-XXXVIII) and (XXXIX-CXIII) are different and patentably distinct.

Inventions (XXXIX-CXIII) and (LXXIX-CXIII) are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in materially different process such as for its enzymatic activity, not involving directing that activity to a specific target.

The method of group CXIV is unrelated to the antagonists or enzymes of groups I-CXIII and the method of group CXV and is patentably distinct.

Inventions (XXXIX-CXIII) and CXV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product



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(MPEP § 806.05(h)). In the instant case the product as claimed can be used in materially different process such as for its enzymatic activity.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., PhD, whose telephone number is 571-272-0936. The examiner can normally be reached on Monday - Friday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the

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Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Charles L. Patterson, Jr.  
Primary Examiner  
Art Unit 1652

Patterson  
November 29, 2005